

ABSTRACT

A method and apparatus for acquiring time synchronization to a received signal are described. First, a burst of data which includes a known sequence is received. This received signal is processed using a plurality of different synchronization techniques. Each synchronization technique can be paired with a corresponding channel estimation technique, which pairing is predetermined to be optimized for particular channel conditions. A processor or model validation unit selects the channel estimate associated with the channel conditions currently being experienced by the radio signal.

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